THE REPUBLIC OF UGANDA

KIKUUBE DISTRICT LOCAL GOVERNMENT ACADEMIC BOARD

PRIMARY LEAVING MOCK EXAMINATION, 2024

MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random Number						Personal Number		

Candidate's Name:.....

Candidate's Signature.....

School Name:.....

District ID:.....

Read the following instructions carefully:

1. This paper is made up of **two** Sections: **A** and **B.**
2. Section **A**, has **20** short-answer questions **(40 marks)** and Section **B** has **12** questions **(60 marks)**
3. All the working for both sections **A** and **B** must be shown in the spaces provided.
4. All working must be done using a blue or black ball - point pen or fountain pen. Only diagrams should be done in pencil.
5. No calculators are allowed in the examination room.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated **"For examiners' use only"**

FOR EXAMINER'S USE ONLY		
Qn. No.	Marks	Exrs' No.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

Turn Over

SECTION A: (40 Marks)

Answer all questions in section A. Each question carries 2 marks.

1. Multiply:

$$\begin{array}{r} 3 \\ \times\ 2 \\ \hline \\ \hline \end{array}$$

2. Simplify: $\bar{5} - \bar{4}$

3. If set A = {All even numbers between 12 and 20}. Find the n {A}.

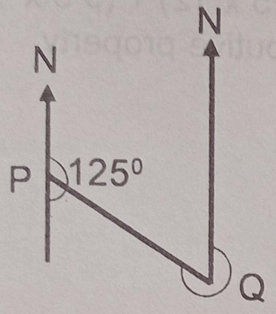
4. A meeting started at 18:00 Hrs and ended at 10:30pm. For how long did the meeting last?

5. Express XLIV in Hindu-Arabic numerals.

6. Using a ruler and a pair of compasses ONLY, construct an angle of 75^0 in the space provided below.

7. If today is Thursday, what day of the week will it be 49 days to come?

8. Use the figure below to find the bearing of P from Q.



9. The distance from town K to town L can be covered by a wheel of diameter 42m in 105 revolutions. What is the distance between town K and Town L?

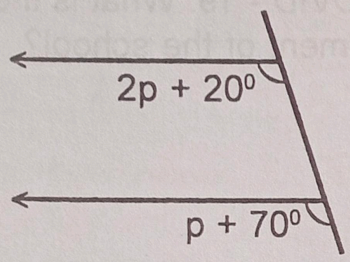
10. Multiply: $101_{two} \times 11_{two}$

11. The number of pupils in Patience Primary School decreased by 20% from 1250 pupils after the lock down of COVID - 19. What is the new enrolment of the school?

12. Fill in the missing number and calculate the mean of the even numbers in the sequense.
64, 49, 36, 25, _____

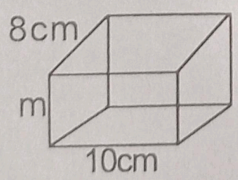
13. Given that x = 6, y = $^{-}$2 and m = 4. Find the value of $\frac{x - y}{m}$

14. Find the value of p in the figure below.



15. Round off 9.789 to one place of decimal.

16. The volume of the box is 320cm³. Find the value of m.



17. Workout (3·5 x 12) + (3·5 x 18) using distributive property.

18. Simplify: $9x - 4(x - 2) + 1$

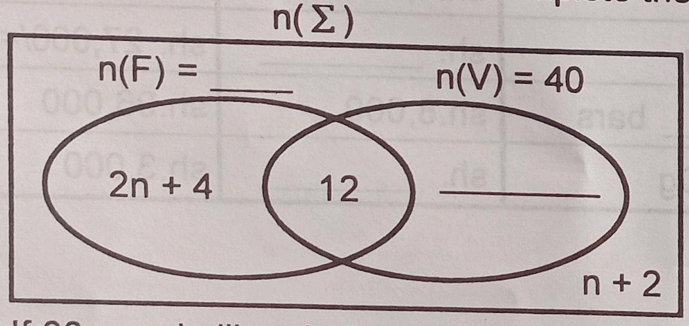
19. Change 32_{five} to the decimal base.

20. Simplify: $\frac{5}{12} + \frac{1}{4}$

SECTION B: (60 Marks)

21. In sports club, (2n + 4) people like playing Football (F) only, 40 people like playing Volleyball (V), 12 like playing both football and volleyball while (n + 2) people like playing other games.

(a) Use the information above to complete the venn diagram below. *(2marks)*



(b) If 30 people like playing footballl, find the value of n. *(2marks)*

(c) Find the probability that a person picked randomly from the club likes playing other games. *(2marks)*

22. The mother is 48 years older than her son. In four years time, the mother will be twice as old as her son

(a) How old is the son now? *(2marks)*

(b) Calculate their total age 8 years ago. *(1mark)*

23. ***The table below shows a list of prices for different items in Hoima Super Market which were bought by Kapere***

(a) Complete the table. *(4marks)*

ITEM	QUALITY	UNIT COST	AMOUNT
Beans	4kg	sh.4,200	sh. _____
Sugar	$7\frac{1}{2}$kg	sh. _____	sh. 27,000/=
Soap	_____ bars	sh.8,000	sh.96,000
Salt	1500g	sh. _____	sh.3,000

(b) If Kapere was given a discount of 10%, how much money did he pay for all the items. *(2marks)*

24.(a) Kadoma took $3\frac{1}{2}$ hours to drive from Hoima to Kampala at a speed of 60km/hr. He returned to Hoima at a steady speed of 30km/hr. How far is Kampala from Hoima. ***(2marks)***

(b) Calculate the average speed for the whole journey. ***(2marks)***

25. ***Pupils in Munteme Junior Primary School did a test and scored as shown in the table below.***

Marks	80	45	m	50
No. of pupils	4	3	6	2

(a) How many pupils did the test? ***(1mark)***

(b) Find the value of m if the mean mark was 61. ***(3marks)***

(c) Calculate the range of the marks. *(1mark)*

26.(a) Simplify: $\frac{2 \cdot 8 + 0 \cdot 8}{1 \cdot 8 \times 0 \cdot 01}$ *(3marks)*

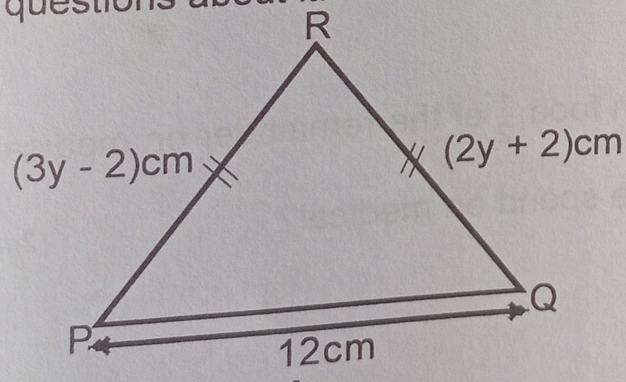
(b) Express 0.4545..... as a simplified common fraction. *(2marks)*

27. The exterior and interior angles of a regular polygon are in the ratio of 2:3 respectively.

(a) Name the polygon. ***(4marks)***

(b) Calculate the interior angle sum of the polygon. ***(1mark)***

28. The figure below is a triangle with length PQ = 12cm. Use it to answer the questions about it.



(a) Find the value of y. ***(2marks)***

(b) Calculate the area of the triangle PQR.

(3marks)

29.(a) Solve: $q - \frac{1}{6}q = 5$. *(3marks)*

(b) Solve: $2(3p - 2) - 2(6p + 9 = 8$. *(3marks)*

30. Esam used 25% of his salary on food, $\frac{1}{2}$ of the remainder on medical and saved the rest.

(a) What fraction of his salary did he spend on medical? *(2marks)*

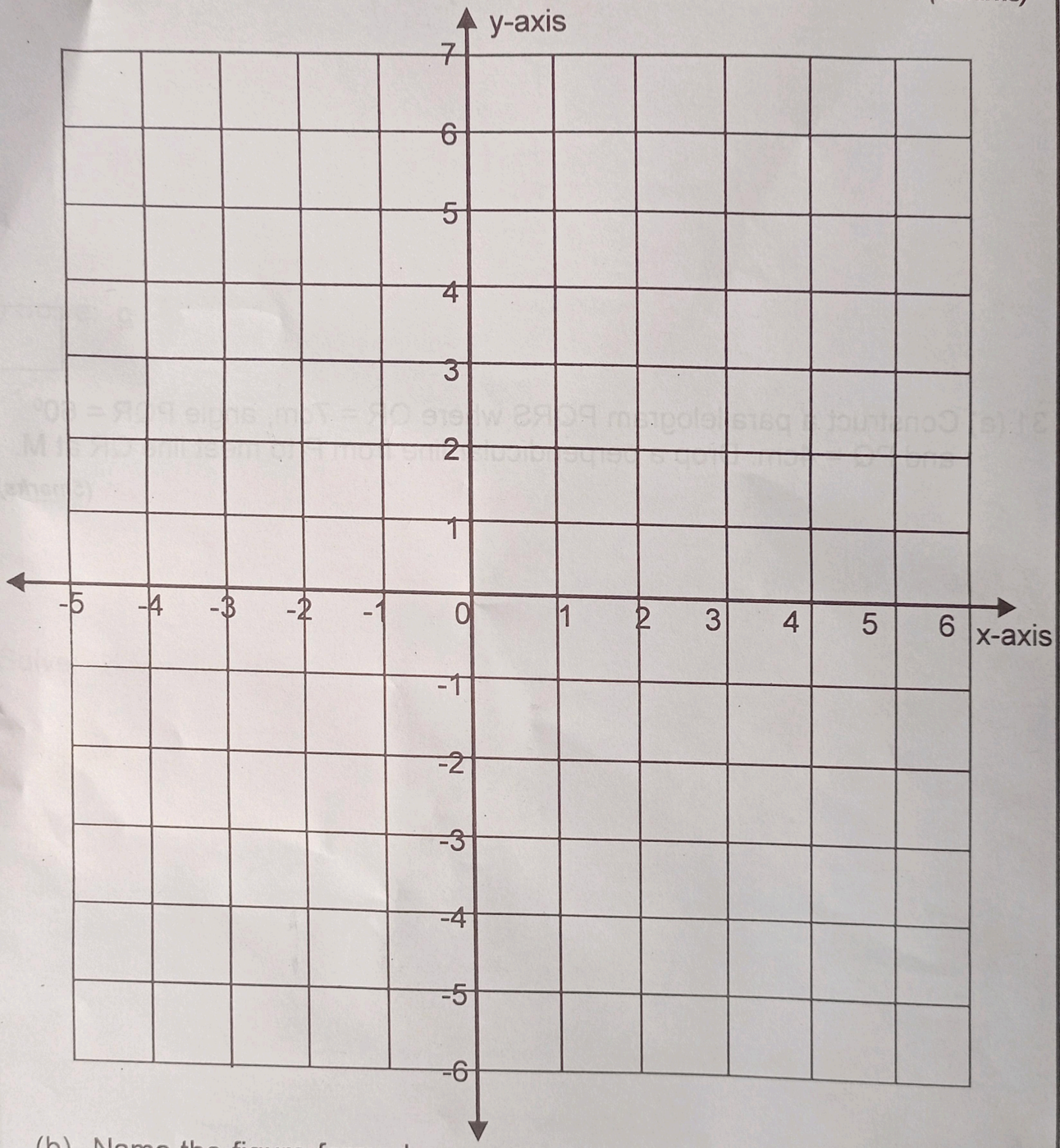
(b) If he saved sh.72,000, find his salary. *(2marks)*

31.(a) Construct a parallelogram PQRS where QR = 7cm, angle PQR = 60^0 and PQ = 4cm. Drop a perpendicular line from P to meet line QR at M.

(5marks)

(b) Measure line PM. *(1mark)*

32.(a) On the grid below, plot the following points. A (⁻1, 6), B(⁻1, ⁻2), C(3, ⁻2) and D(3, 2). Join A to B, B to C, C to D and D to A. ***(4marks)***



(b) Name the figure formed.

(1mark)

END